(Sheet -1- of 25)
ISOLATION, PURIFICATION AND SYNTHESIS OF PROCYANIDIN B2 AND Title:

USES THEREOF

Applicants: Gerardo M. Castillo et al.
Filed: October 10, 2003 Our Docket No.: 25835-4003

OBn -BnBr BnO Oxidation NaH, DMF ÓBn 20% Reduction Catechin DDQ Ethylene glycol BnO-TiCl4 Hydrogenation + 4 x (2) (3) ÒВп (4) (5)

Figure 1 Prior Art .

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ISOLATION, PURIFICATION AND
SYNTHESIS OF PROCYANIDIN B2 AND

USES THEREOF

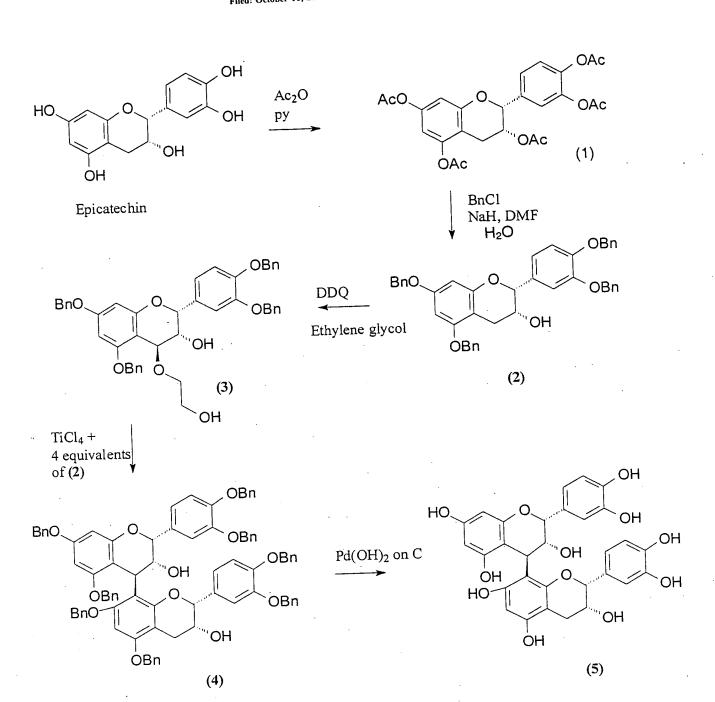
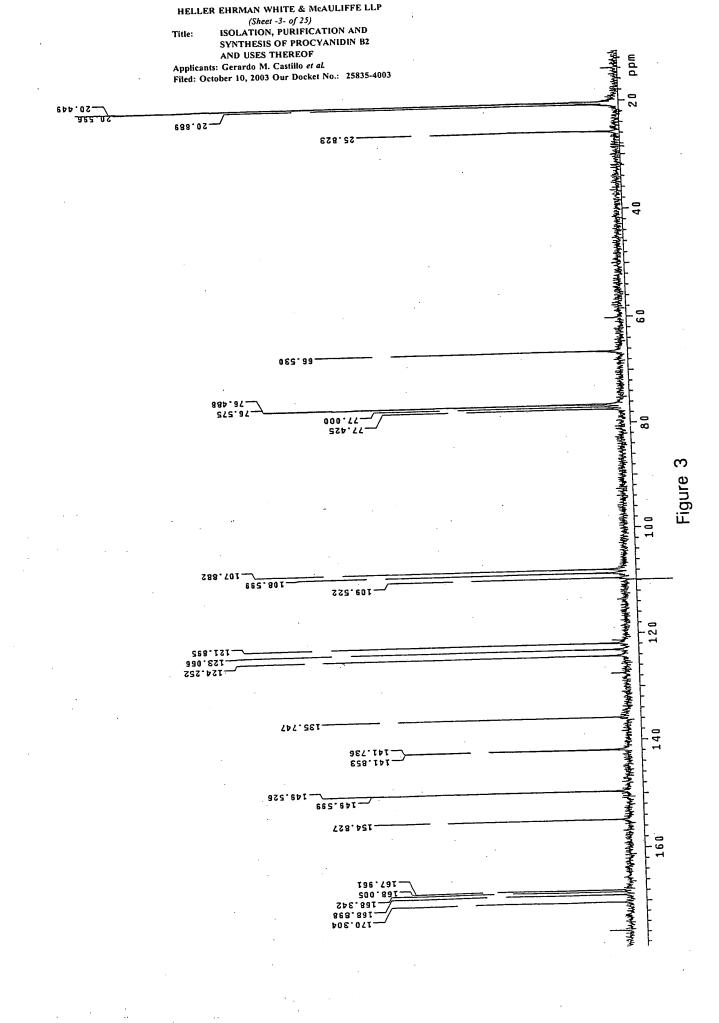


Figure 2



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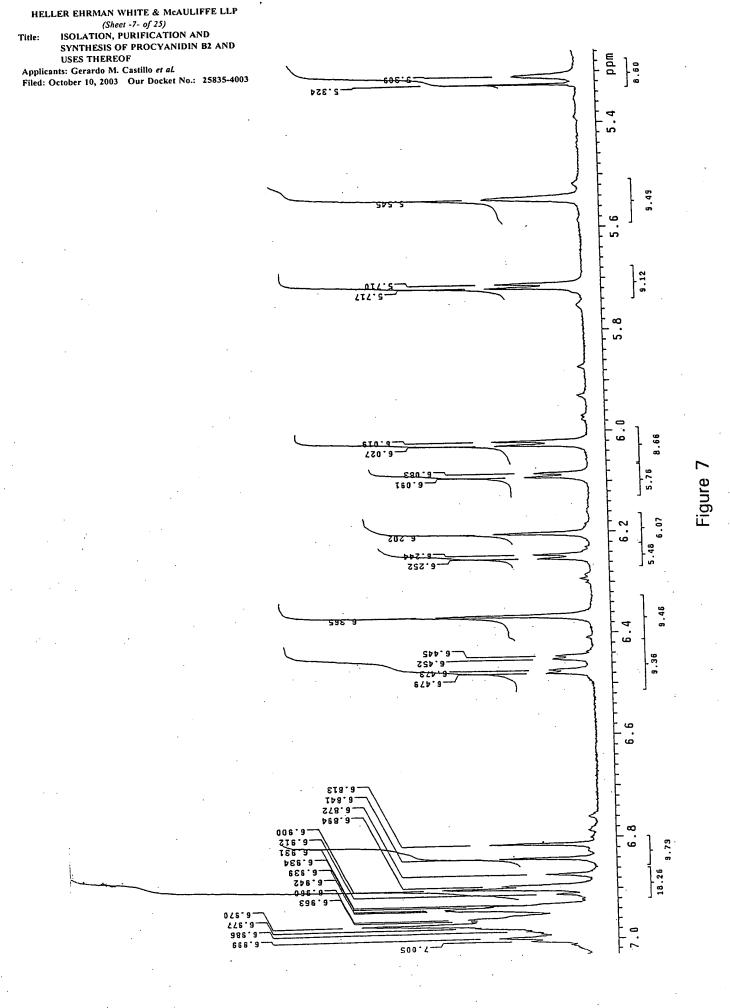
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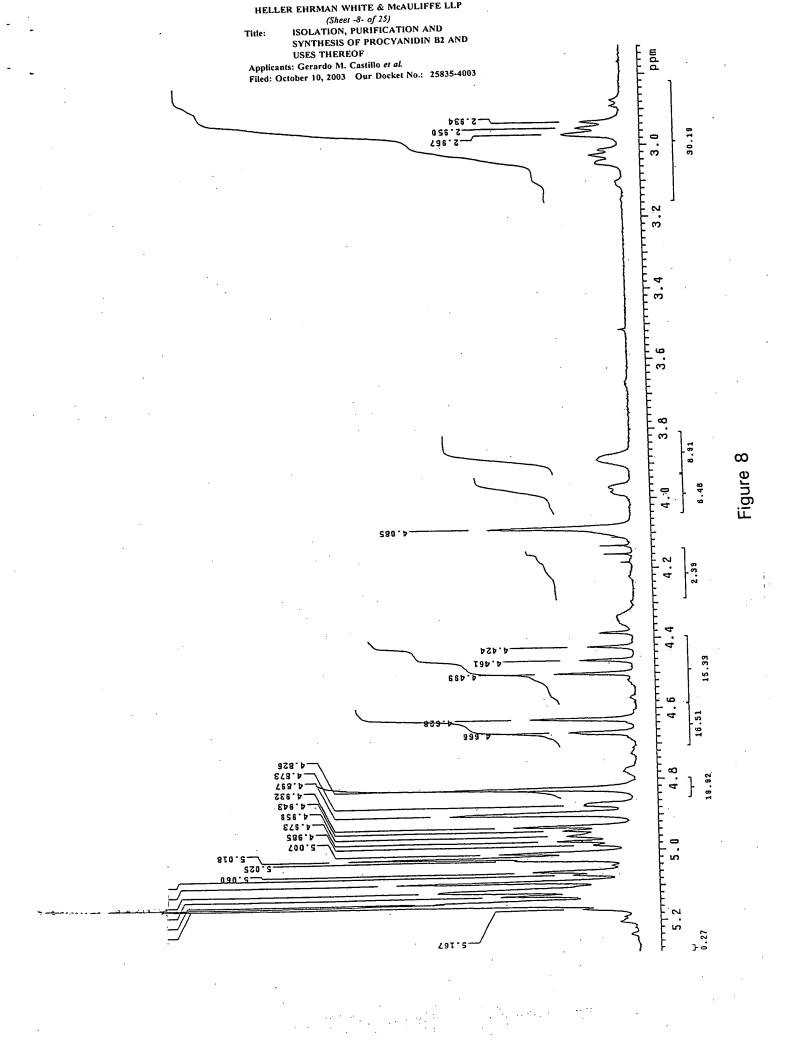
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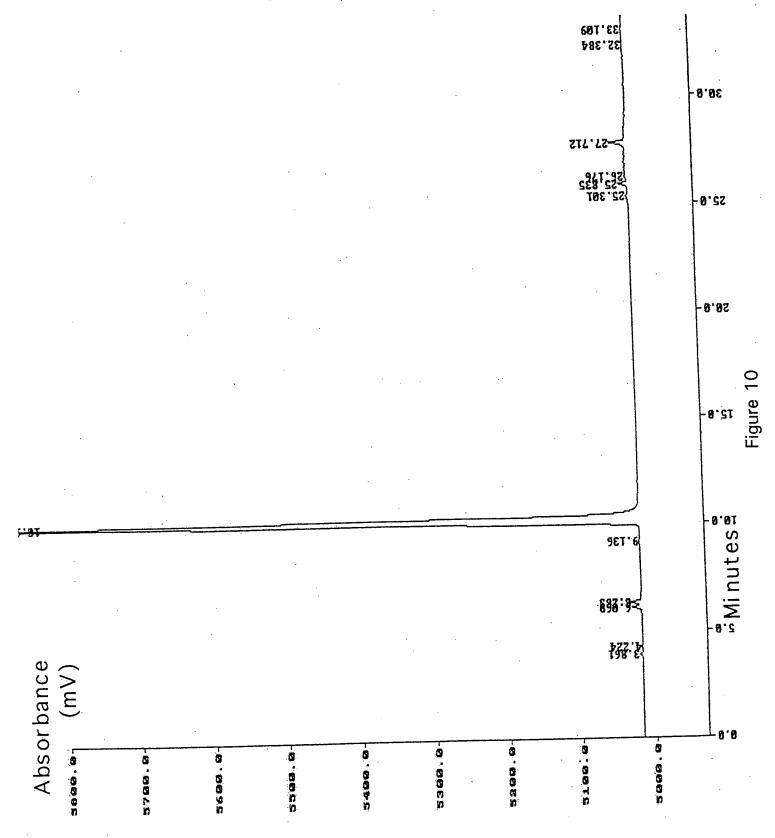
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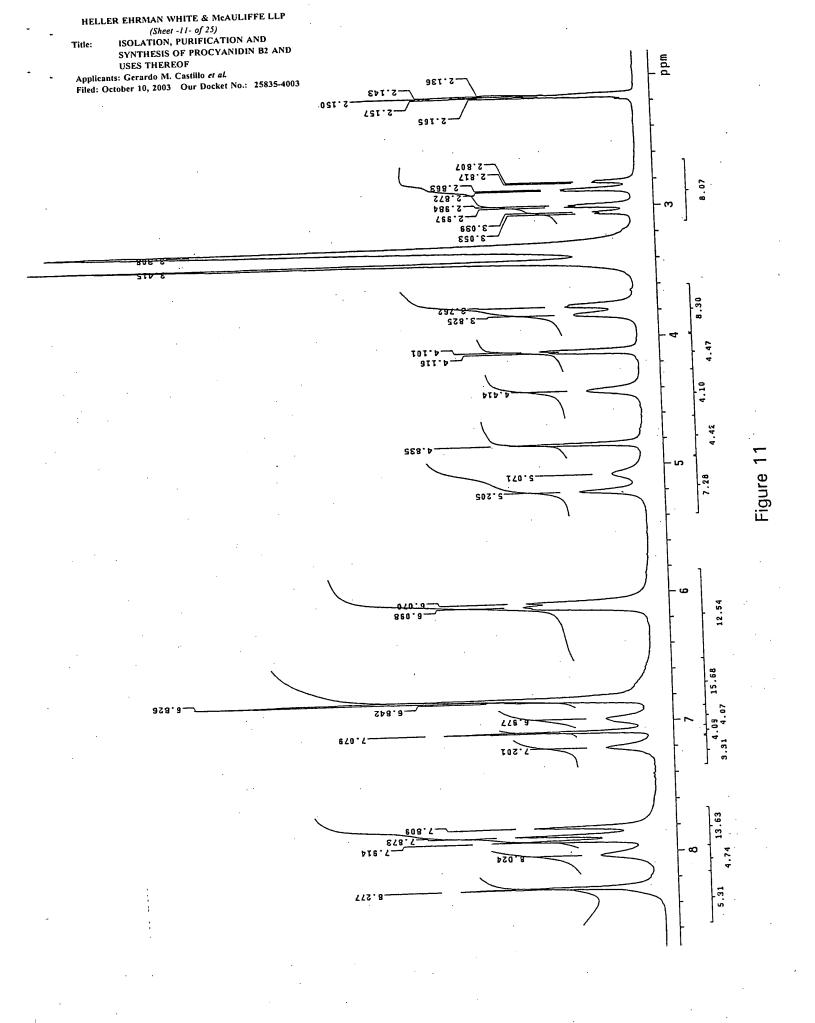
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ISOLATION, PURIFICATION AND
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ISOLATION, PURIFICATION AND SYNTHESIS OF PROCYANIDIN B2

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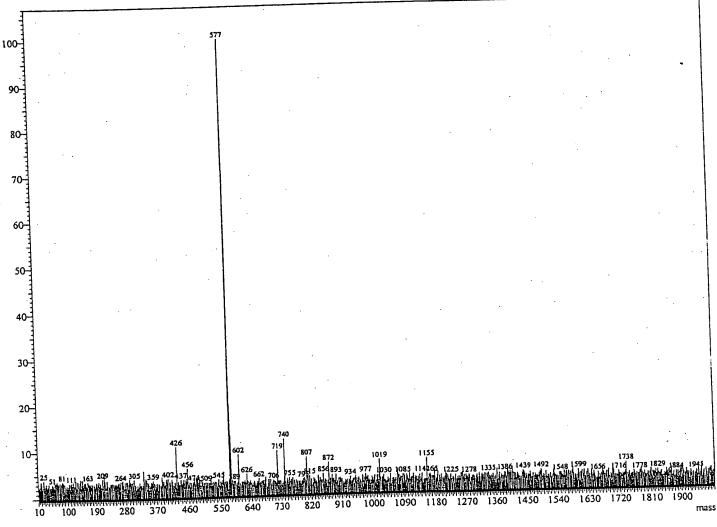
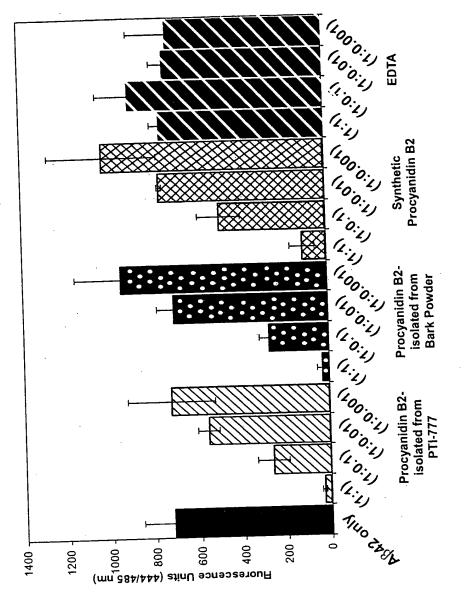


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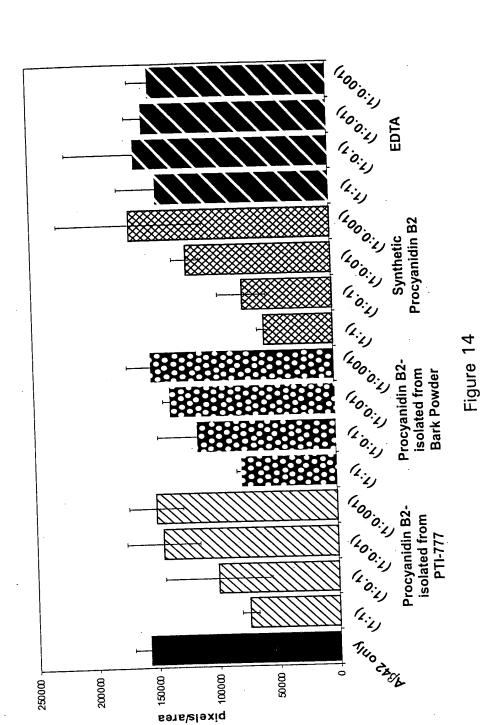
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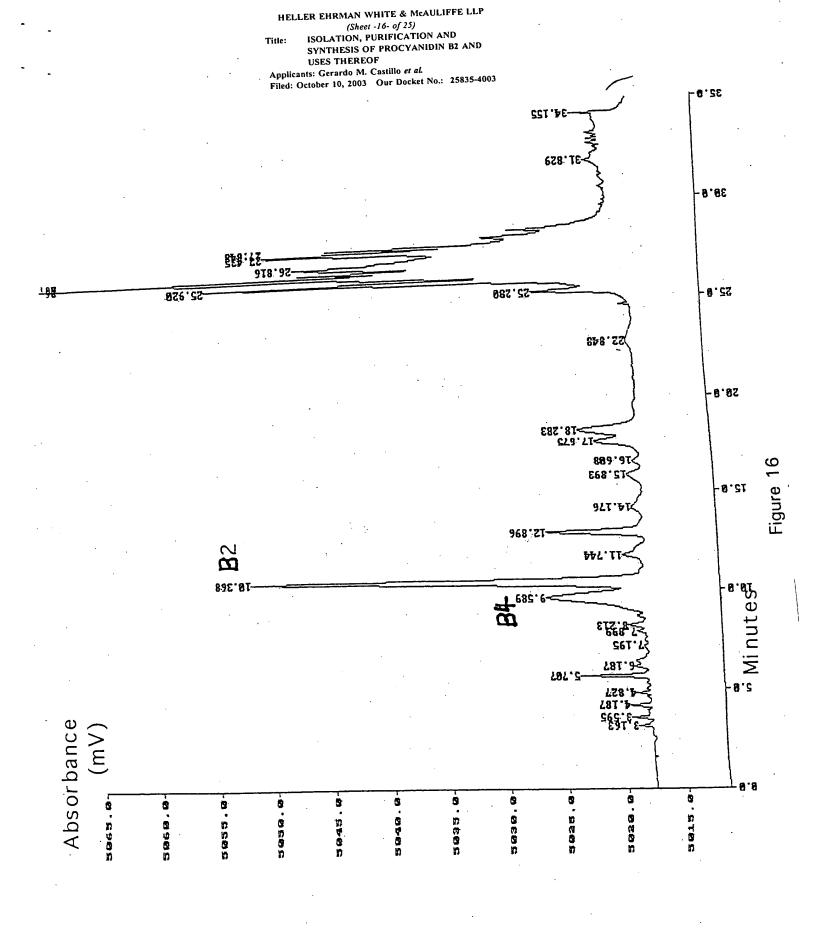
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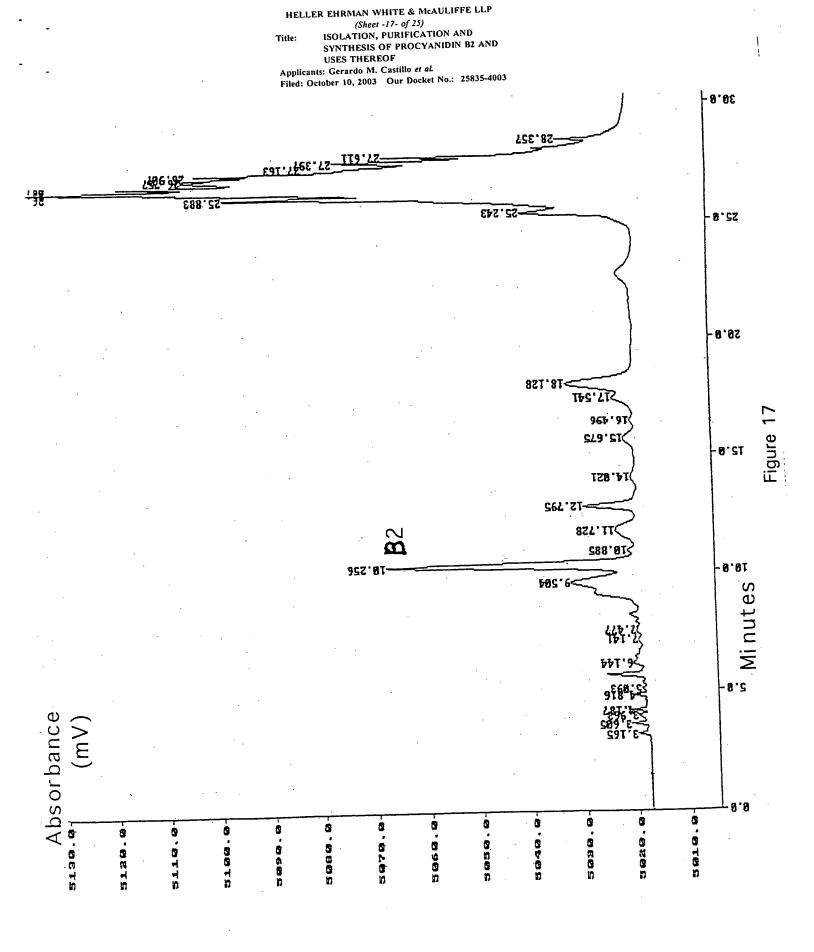
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Figure 15





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Figure 18

SYNTHESIS OF PROCYANIDIN B2 AND USES THEREOF Applicants: Gerardo M. Castillo et al. 32 B-Filed: October 10, 2003 Our Docket No.: 25835-4003 711, 26 848.SE 9.05 462:92 25.243.552 52 8 **32,818** 197.EZ 32,936 26.997 - 9 · 92 668 6T 662.81 >17.669 E09'9T 888'ST 72'6 £89.4 13.555 12.865 111.51 **B**2 ri Minutes. ™Minutes + 87 119.6-志 Absorbance 5200.0 5150.0 5100.0 5250.0 3550.0 5366.6 5350.8 5466.6 5056 5500.0 3450.0 3666

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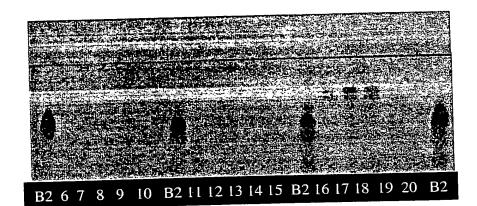
Figure 20

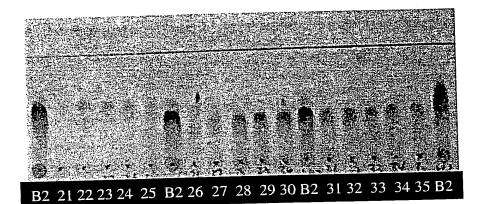
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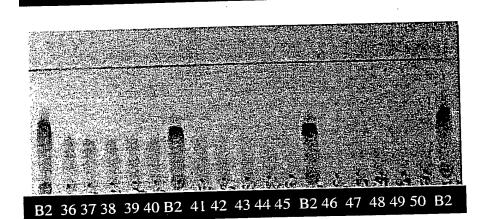
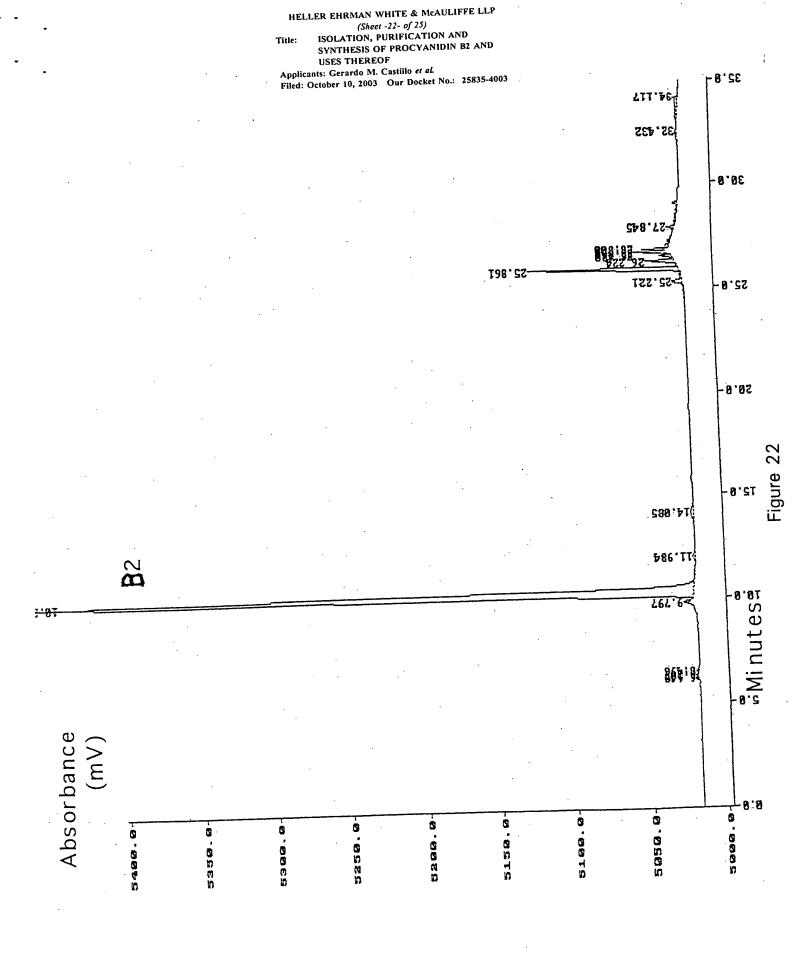


Figure 21

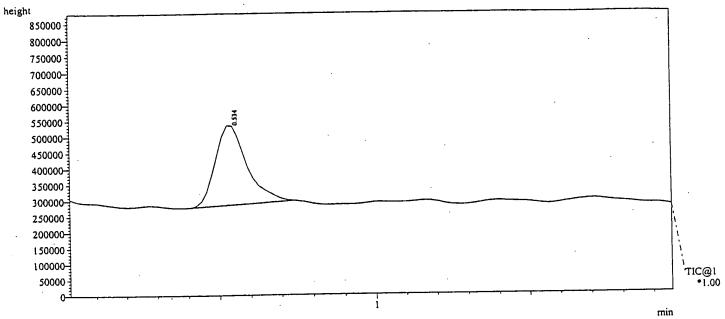


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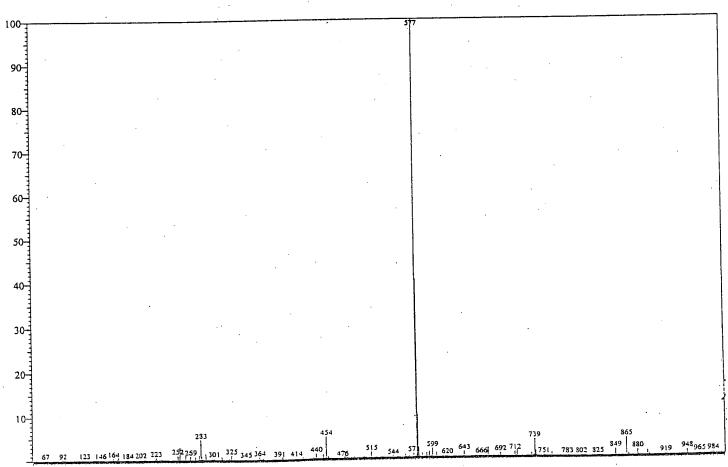


Figure 23

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ISOLATION, PURIFICATION AND Title: SYNTHESIS OF PROCYANIDIN B2

AND USES THEREOF

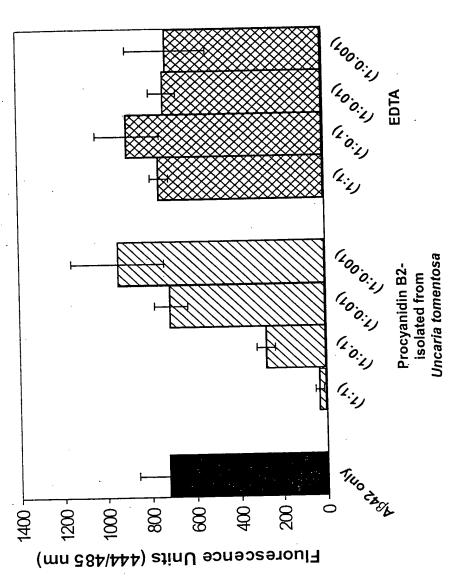


Figure 24

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